

COMPOSITIONS AND METHODS FOR INHIBITION OF HIV-1 INFECTION

Abstract of the Disclosure

5 This invention provides a composition which comprises an admixture of three compounds, wherein: (a) one compound is an antibody which binds to a CCR5 receptor; (b) one compound retards attachment of HIV-1 to a CD4+ cell by retarding binding of HIV-1 gp120 envelope glycoprotein to CD4 on the surface of the CD4+ cell; and (c) one compound retards gp41  
10 from adopting a conformation capable of mediating fusion of HIV-1 to a CD4+ cell by binding noncovalently to an epitope on a gp41 fusion intermediate; wherein the relative mass ratio of any two of the compounds in the admixture ranges from about 100:1 to about 1:100, the composition being  
15 effective to inhibit HIV-1 infection of the CD4+ cell. This invention also provides a method of inhibiting HIV-1 infection of a CD4+ cell which comprises contacting the CD4+ cell with an amount of the composition of the subject invention effective to inhibit HIV-1 infection of the CD4+  
20 cell so as to thereby inhibit HIV-1 infection of the CD4+ cell.

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